الجمهورية الجزائرية الديمقراطية الشعبية

وزارة التربية الوطنية — الديوان الوطني للامتحانات والمسابقات

امتحان بكالوريا التعليم الثانوي — دورة : 2016

الشعبة : علوم تجريبية، رياضيات، تقني رياضي، تسير و اقتصاد

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على المترشح أن يختار أحد الموضوعين التاليين:

الموضوع الأول

Part One: Reading **(15 points)**

A/ Comprehension and Interpretation **(08 pts)**

Read the text carefully and do the activities.

NASA has confirmed the discovery of Kepler 452b, the most Earth-like planet ever encountered. It is located in the Goldilocks zone, an area in which a planet is just the right distance from a host star. **This planet** would have "just the right" conditions to support liquid water and possibly even life. This extraordinary world was spotted by the Kepler Space Telescope and is the first confirmed planet among over 500 potential candidates being added to the mission's catalogue. The planet is 1,400 light-years away from our Solar System and orbits a star that astronomers call our Sun's cousin. While this star is four percent more massive and ten percent brighter, the distance between it and Kepler 452b is approximately the same as Earth's distance from the Sun. The planet itself has a radius 60 percent larger than Earth and is suspected to be rocky, with a thick atmosphere and a significant amount of water.

Kepler 452b's host star is 1.5 billion years older than **ours**, and will give scientists a glimpse into how the Sun's age will eventually affect Earth. "The increasing energy from its aging sun might be heating the surface and evaporating any oceans. The water vapor would be lost from the planet forever," said Doug Caldwell, a scientist assigned to the Kepler mission. "Kepler 452b could be experiencing now what the Earth will undergo more than a billion years from now, as the Sun ages and grows brighter."

Adapted from Observer,
"Discovery of Habitable Earth- like Planet Announced", July 2015, by Robin Seemangal

1. **Choose the letter that corresponds to the right answer. The text is…**
   a. prescriptive **b.** narrative **c.** expository

2. **Write the letter which best completes the statement.**
   A. Kepler 452b is the most ……. to our planet.
   a) different **b)** remote **c)** similar
   B. Kepler 452b would contain the …….. conditions to support liquid water.
   a) unusual **b)** suitable **c)** unsuitable
   C. Our Sun's cousin gives off ……. light.
   a) more **b)** no **c)** less
   D. Our star is ……. kepler 452b host star.
   a) older than **b)** younger than **c)** as old as

3. **Answer the following questions according to the text.**
   a. Where is Kepler 452b situated?
   b. What might be the components of Kepler 452b?
   c. How can this discovery be beneficial for scientists and humanity?
4. **In which paragraph is it mentioned that** life may be possible on Kepler 452b?
5. **Who or what do the underlined words refer to in the text?**
   a. This planet **(§1)** **b.** ours **(§2)**

B/Text Exploration (07 pts)

1. **Find in the text words or phrases that are opposite in meaning to the following:**
   a. unlike **(§1)** ≠ ….. **b.** found **(§2)** ≠ …..
2. **Divide the following words into roots and affixes.**

Disappearance - undergo - aging

Prefix	Root	Suffix

3. **Rewrite sentence (b) so that it means the same as sentence (a).**
   1- a. NASA has confirmed the discovery of Kepler 452b.
   b. The discovery of Kepler 452b ……..…..
   2- a. "Kepler 452b could be experiencing now what the Earth will undergo", says Caldwell.
   b. Caldwell says that ……..……...
   3- a. I have a strong desire to set foot on the Moon someday.
   b. I wish …….
4. **Classify the following words according to the pronunciation of their final "s".**

practices - candidates - stars - travels

/s/	/z/	/ɪz/

5. **Fill in the gaps with words from the list.**

astronomical - defined - satellite - moon

A satellite can be … **(1)**… as any object that orbits around something else. There are ten types including … **(2)**… satellites. For example, the … **(3)**… orbits around Earth and is thus a natural … **(4)**…, but man-made ones are called artificial objects.

Part Two: Written Expression (05 points)

Choose <u>ONE</u> topic only.

Topic One.

Some people think that satellites and space exploration are a waste of time and money while others disagree. You are a member of a space association. Write a public statement of about 80 to 120 words in which you defend your point of view and try to convince people of their importance.

You may use the following notes:

- Telecommunications – exploring expeditions - gathering information about other planets
- Research – weather forecast – predicting natural disasters…

Topic Two.

Next December, you will attend an anti-corruption summit in Strasbourg organized by Transparency International.

Write a speech of about 80 to 120 words for the opening ceremony in which you suggest solutions to fight corruption in the world.

انتهى الموضوع الأول

الموضوع الثاني

Part One: Reading **(15 points)**

A/ Comprehension and Interpretation **(08 pts)**

Read the text carefully and do the activities.

When I was a student with a paper to write, I would go to the card catalogue, find the book, write down a quote from it, and finally incorporate that into my paper. For today's students, the process is much easier; they download the quote, however sometimes the line between downloading a quote and downloading whole sections of existing work gets blurred.

Notions of intellectual property ownership are further complicated by the tendency in today's colleges and universities to encourage collaboration. In business schools, **where** I have taught, we have told people that teamwork is key to success in the business world; it is a core skill and one that we celebrate. A lot of this collaboration happens online, using the same tools students use for social interactions. In this environment, it can become hard to navigate between social and educational media use, hard to distinguish between collaboration and appropriating someone else's work.

But while technology changes, ethical principles do not. Passing someone else's words off as your own is still wrong, whether you copied them from a book or from a website. It is **our** role as educators to transmit the traditions of ethical thinking to each generation of students, whatever new challenges they are navigating.

By Kirk Hanson, Executive Director, Professor of Social Ethics

1. Are the statements true or false? Write T or F next to the letter corresponding to the statement.

a. It is hard for today's students to get information.
b. Group work is basic to learning and achievement.
c. Collaboration tools in class differ from social interaction.
d. Ethical principles are much influenced by technological progress.

2. In which paragraph is it mentioned that:

a. students are unaware about the necessity to footnote someone's property?
b. copying someone's property is unethical?

3. Answer the following questions according to the text.

a. Why was it less easy for the writer to quote from a book?
b. How is teamwork in schools causing confusion among students?
c. Why is it considered wrong to copy someone else's property?

4. Who or what do the underlined words refer to in the text ?

a- where (§2) **b-** our (§3)

5. Copy the title you think is the most appropriate.

a. Has Technology Killed Academic Integrity?
b. Is Cheating Restricted to Students?
c. Teamwork in an Exam

B/ Text Exploration (07 pts)

1. Find in the text words or phrases that are opposite in meaning to the following:

a- extract (§1) ≠ ….. **b-** competition (§2) ≠ ….. **c-** receive (§3) ≠ …..

2. Complete the chart as shown in the example:

	Verb	Noun	Adjective
Example	***to collaborate***	***collaboration***	***collaborative***
	.....	……..	expected
	……..	success	……..
	to progress	……..	……..

3. Join each pair of sentences using the connector between brackets. Make any necessary changes.

a- The process of copying is easy. Students download whole sections of existing work. (**so….that**)

b- Ethical principles are maintained. Educators transmit the traditions of ethical thinking to each generation of students. (**providing that**)

4. Classify the words below according to the number of their syllables.

website - ethical - downloading - core

One syllable	Two syllables	Three syllables

5. Re-order the following sentences to make a coherent paragraph.

a. Cheaters get rewards that they don't deserve

b. It is a deeply unfair behaviour that hurts other students.

c. believing that it's a private behaviour that doesn't hurt anyone.

d. Cheating is not a victimless act.

PART TWO: Written Expression (05 pts)

Choose <u>ONE</u> of the following topics.

Topic One:

Your class project has been copied and presented by a classmate of yours. You felt cheated and decided to report the situation to the teacher and, even, to the class. Make use of the information in part ONE (Reading) to give a talk of about 80 to 120 words about property theft.

Topic Two:

Using the social media has become a risk to adolescents' education more often than adults realise. Write an article of about 80 to 120 words for your school magazine about some of the risks and how to prevent them.

انتهى الموضوع الثاني

Keys to subject 1 (Kepler 452b)

15pts **08points**		**Part One: Reading** **A/ Comprehension**
1pt	1pt	**1.** C **. expository**
2pts	0.5×4	**2.** A. (**c**) B. (**b**) C. (**a**) D. (**b**)
3pts	01×3	**3. a.** Kepler 452b is situated in the Goldilocks zone. **b.** The components of the Kepler 452b might be: rocks, a thick atmosphere and a significant amount of water. (for one component: 0.5pt and for more than one component 01pt.) **c.** The discovery of Kepler 452b will give scientists a glimpse into how the Sun's age will eventually affect Earth. **Or:** It will help scientists predict what the Earth will undergo more than a billion years from now. (accept **one** of them).
1pt	1pt	**4.** In the first paragraph. In paragraph one.
1pt	0.5×2	**5. a.** Kepler 452b / the most Earth-like planet **b.** star / sun
07points		**B/ Text Exploration**
1pt	0.5×2	**1. a.** the same / like **b.** lost
1.5pts	0.5×3	**2.**

Prefix	***Root***	***Suffix***
dis	appear	ance
under	go	/
/	age	ing

1.5pts	0.5×3	**3. b1.** The discovery of Kepler 452b **has been** confirm**ed** (by NASA). **b2.** Caldwell says that Kepler 452b could be experiencing now what the Earth will undergo. **b3.** I wish I **could** set foot on the Moon someday.
1pt	0.25×4	**4.**

/s/	**/z/**	**/ɪz/**
candidates	stars – travels	practices

2pts	0.5×4	**5. 1.** defined **2.** astronomical **3.** moon **4.** Satellite
05points		**Part Two: Written Expression.** **Topic one:** form: 3 pts content: 2 **pts** **Topic two:** form: 2.5 pts content: 2.5 pts

العلامة مجموع	العلامة مجزأة	عناصر الإجابة *Keys to subject 2 (When I was a student…)*
08pts		**Part One: Reading** **A- Comprehension**
02pts	(0.5x4)	**1**. a- **F** b- **T** c- **F** d- **F**
01pt	(0.5x2)	2. a- §**2** b- §**3**
03pts	(1x3)	3. a- He would go to the card catalogue, find a book, write the quote from it, and finally incorporate that into his paper. **Or:** He had to read different sources to find what to quote. (accept any similar answer.) b- It can become hard to navigate between social and educational media use. **Or:** It is hard to distinguish between collaboration and appropriating some else's work. c- It is a kind of a theft. **Or:** we pass someone else's words off as ours. **Or:** We don't have the permission to copy someone else's words.
01pt	(0.5x2)	4. a- business schools b- educators / teachers
01pt	01pt	5. Title: **a**. Has Technology Killed Academic Integrity?
07pts		**B- Text Exploration**
01.5pt	(0.5x3)	1. a- incorporate b- collaboration / teamwork c- transmit
1.5pt	(0.25x6)	2. Verb / Noun / Adjective to expect / expect**ation** / expect**ancy** / //////////////////// to succeed / //////////////////////////////// / success**ful** / unsuccess**ful** //////////////////// / progress**ion** / progress / progress**ive** / progress**ing**
1pt	(0.5x2)	3. a- The process of copying is **so** easy **that** students download the quote. b- Ethical principles will be maintained , **providing that** educators transmit the traditions of ethical thinking to each generation of students . **Providing that** educators transmit the traditions of ethical thinking to each generation of students, ethical principles will be maintained.
01pt	(0.25x4)	4. One syllable: core Two syllables: website Three syllables: ethical - downloading
02pts	(0.5x4)	5. **d**-1 **b**-2 **a**-3 **c**-4 or: **d**-1 **b**-2 **c**-3 **a**-4 (even if punctuation and capitalization are not respected (c-3 a-4), the passage makes sense.)
05pts		**Part Two. Written Expression** **Topic one:** form: 3 pts content: 2 pts **Topic two:** form: 2.5 pts content: 2.5 pts